20 March 1957

MENORANDUM FOR: THE RECORD	
SUBJECT : Visit to	25X
i. Time and Place: This meeting w	nes beld 34 March 1957 in 25X
2. Attendance:	25X
j. <u>Mismeston:</u>	
to be submitted in connection with the en	ly discussed the WD-105 form 25X
for the twelve month period starting 1 M increased labor costs estimated at 12% w	ay 1957. He not need out that
slightly duringing the total cost of this \$400,000.00 This proposal will be forther	moject to alightly more than
	ed to proceed on the suitone 25X
installation of four or-z transmitters wi	ith two more ST-2's to be used
units and make an effort to minimise hem	liable type transistors in these 25X
five of the ST-2 units vill be	the 6th 25X
(spare unit) will repeat one of the rive probe mike, 200' of fine mike wire and ;	frequencies. The 25X
ctners for each of the four transmitters	assembled in the suitcase
voich leaves to coordinate their me	diffication of the ST-2 anguard. 25X
the remaining entennes to be furnished by	- mr sames to read the following
gate the possibility of furnishing requir	cthers. will investi- 25X counts from the 67-2 which 25X1
feels can be done by adding ad	Middleman I de marra I ber a de la
existing ST-2 circuit.	25X1
A Mari Car many landary from E.C.	and
A Voltage regulator for 50 a modifying a "Solar" voltage regulating tr	25X1
mitters and one probe type micron	shope were delivered to 25X
for this task.	008632
	DOC 10 REV DATE 18 JULY 80 BY G52497
	-1 while where $C \cap C \subset O \cap C \subset C$
e de la companya del companya de la companya del companya de la co	CRIC CLASS S DINES F PEY CLASS C. JUST 22 MEXT REV 20/0 AUTH: HE TILL
	JUST 22 NEXT REV 2010 AUTH: HE 17-2

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felt that the necessary modifications	25X1
to the six ST-2 transmitters, which were delivered to at this	25X1
time, could be made and the system completed by 1 April 1957.	
c. P-163B: Battery Operated ST-2 for	25X1
has this special version of the ST-2 about completed. In	25X1
answer to their inquiry, they were told to furnish a mike lead of	
from 5' to 6' in length. It was tentatively decided to use an RCA-BK 6B mike which the contractor has on hand.	
	25X1
d. P-193: pointed out that their original pro-	23/1
power supply. An amendment will be requested with a slight increase	
in the overall cost of this project to furnish one power supply per	
transmitter unit.	
An inquiry was made as to the type of power terminals	
to be furnished. It was decided that no terminal as such would be	
provided but wire leads of 1' to 2' in length would be adequate	
assuming that the wires would be installed in such a manner as to pre- vent them from being pulled loose.	
e. P-101E: Gibson Modulator Work on the Gibson Modulator	
has been progressing very slowly since the employee who started this	0.5)(4
project is no longer with This former employee is however	25X1
available on a consulting basis should the need arise. Six breadboard	
models have been made with only one showing any promise, and that one	
required a 100 watt source of Infra Red to give any indication of	25X1
is attempting to evaluate this project as it now stands in order to decide on a future course of action.	23/1 I
in order to decide on a future course of action.	
f. P-125C: Camera Sequence, Self Actuating. A modification	
of this device was discussed which would allow the passage of one day	
to be recorded on the film. The device suggested by consisting	25X1
of a neon lamp which would be actuated by the rising photomultiplier	2EV4
cell'vas described to A date of 4 April was given to	25X1
for completion of this task.	25 X 1

After some discussion it seemed that it might be more feasible to eliminate the mean lamp indication and merely trigger off one extra 3 minute cycle when the light intensity diminished to a predetermined level.



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MEMORANDUM FOR: THE MECORD	
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the possible reasons for the pour performance of one of the two triggering devices furnished to APD/CB. He felt that the trouble was in the last stage transistor which probably developed too much gain. He saked that the device be sent back for examination.	25 X 1
Prenentter Secrivers. The function-	25 X 1
ing of this device as observed in tests made at APD was discussed in-	
cluding the effects on transmission.	25 X 1
chokes or filters to prevent the from being affected by the cerrier.	25X1 25X1
ran saked to explore the possibility of using a frequency such that its detection would be difficult due to masking of the transmission by the signal of a local broadcasting station.	25X1
.mays as a discussion on three related systems	25 X 1
all of which were systems which made use of the to return an audio signal to The	25X1 25X1
difference in the three systems was in the masses the audio amplifier obtained its power. Particular encouragement was given to the system which received its entire power requirement for the audio amplifier from a 25KC(or higher) carrier and thus was independent of batterys and sould be turned on and off from the contractor are encouraged to pay particular attention to reliability in the design	25X1
of components in order to empitalize on the advantage offered by this relatively simple system. A copy of a description furnished by the contractor of these three systems is attached to this memorandum.	
A demonstration of the basic idea of these	25 X 1
systems was given which featured the use of the CO db transistorized kit presmplifier as a receiver. One system described as "Dual Control System" was hand carried back to APD.	25X1
discussed a proposal for the storage of sudio information on photographic film. It was felt that this device would be potentially capable of storing 30 minutes audio information on one 35mm frame. Basically the device would be an audio modulated light source which scans a photo sensitized surface through two fine, non-parallel alits cut in rapidly revolving drums.	25X1

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NEMORANIUM FOR: THE RECORD SUBJECT : Visit to -	25X
has developed a transistorized FM paging receiver for which is fully selective due to a viabrating reed decoding device (mfg & furnished by . This receiver could be adapted to our use as a warning device or for other purposes. It has a battery life of 60 hours. It includes its own antenna which is a "top hat" that fits the end of the small rectangular shaped box which houses the receiver. The receiver is owni directional and works well when carried in the pocket.	25X 25X 25X
Henceforth all transistorized units furnished by will have "aged" transistors to increase reliability. The aging consists of a 10 day cycling period in the oil bath chamber with readings of Bata and Ico being measured a total of three times during this period. A memorandum on Baird's findings regarding transistor reliability will be sent to us the week of 13 March.	25X
there is only one man available to work on this project. Not much progress has been made lately. Question of priority of this project was reised by which was not specifically answered pending further evaluation within APD & ED.	25X 25X
k. Image Recognition System A report on this project was hand carried back to AFD.	
	25X
Distribution Orig - P-77 - P-1018 1 - P-1250 - P-1638	

MUS/APD/IEIS/eb